

**Title 19 - DEPARTMENT OF HEALTH AND SENIOR SERVICES**  
**Division 30 - Division of Regulation and Licensure**  
**Chapter 40 – Comprehensive Emergency Medical Services Systems Regulations**  
**PROPOSED REGULATIONS (March 19, 2010)**

**19 CSR 30-40.XXX Definitions and Abbreviations Relating to STEMI Centers**

*PURPOSE: This rule defines terminology related to STEMI centers.*

**(1) The following definitions and abbreviations shall be used in the interpretation of the rules in 19 CSR 30-40.xxx to 19 CSR 30-40.xxx:**

- (A) **Anesthesiologist assistant (AA)** means a person who meets each of the following conditions:
  - 1. Has graduated from an anesthesiologist assistant program accredited by the American Medical Association's Committee on Allied Health Education and Accreditation or by its successor agency;
  - 2. Has passed the certifying examination administered by the National Commission on Certification of Anesthesiologist Assistants;
  - 3. Has active certification by the National Commission on Certification of Anesthesiologist Assistants;
  - 4. Is currently licensed as an anesthesiologist assistant in the state of Missouri; and
  - 5. Provides health care services delegated by a licensed anesthesiologist. For the purposes of subsection (1) (B), the licensed anesthesiologist shall be "immediately available" as this term is defined in section 334.400 RSMo;
- (B) **Board-admissible** means that a physician has applied to a specialty board and has received a ruling that she has fulfilled the requirements to take the examinations. Board certification must be obtained within five (5) years of the first appointment;
- (C) **Board-certified** means that a physician has fulfilled all requirements, has satisfactorily completed the written and oral examinations, and has been awarded a board diploma in a specialty field;
- (D) **Cardiac catheterization laboratory** is the setting within the hospital where the percutaneous coronary intervention (PCI) is done. This procedure uses a catheter device inserted through an artery in the arm or groin to enlarge a narrowing in a coronary artery. Specialized staff, equipment and protocol must be in place;
- (E) **Cardiac catheterization team** includes the physicians and clinical staff that perform the percutaneous coronary interventions and is part of the clinical STEMI team;
- (F) **Certified registered nurse anesthetist (CRNA)** means a registered nurse who has graduated from a school of nurse anesthesia accredited by the Council on Accreditation of Educational Programs of Nurse Anesthesia or its predecessor and who has been certified as a nurse anesthetist by the Council on Certification of Nurse Anesthetists;
- (G) **Clinical staff** is an individual that has specific training and experience in the treatment and management of STEMI patients. Examples include physicians, registered nurses, advanced practice nurses, physician assistants, pharmacists, and technologists;
- (H) **Clinical team** is a team of healthcare professionals involved in the care of the STEMI patient and may include but not be limited to cardiologists, interventional cardiologists, cardiovascular surgeons, anesthesiologists, emergency medicine, and other STEMI center clinical staff. The clinical team is part of the hospital's STEMI team;
- (I) **Continuing medical education (CME)** means continuing medical education and refers to the highest level of continuing education approved by the Missouri State Medical Association, the Missouri Association of Osteopathic Physicians and Surgeons, The American Osteopathic Association or the Accreditation Council for Continuing Medical Education;

- (J) **Continuing education** means education approved or recognized by a national and/or state professional organization and/or STEMI medical director;
- (K) **Core team** consists of a physician experienced in diagnosing and treating STEMI, usually the STEMI medical director, and at least one other healthcare professional or qualified individual competent in STEMI care as determined by the hospital, usually the STEMI program manager/coordinator; the core team is part of the hospital STEMI team;
- (L) **Credentialed or credentialing** is a hospital-specific system of documenting and recognizing the qualifications of medical staff and nurses and authorizing the performance of certain procedures and establishing clinical privileges in the hospital setting;
- (M) **Department** means the department of health and senior services, state of Missouri;
- (N) **Door to Balloon Time** means the time from patient arrival at the hospital to the time the balloon is in the affected cardiac blood vessel;
- (O) **Door to Device Time** means the time from patient arrival at the hospital to the time the device is in the affected cardiac blood vessel;
- (P) **Emergency medical service regions** consist of six regions in the state. Counties that are included in each of these regions are defined in state regulation (19 CSR 30.302);
- (Q) **First Medical Contact to Balloon or Device Time** means the time from first medical contact with the patient to the time when the balloon or device is in the affected cardiac blood vessel;
- (R) **Hospital** means an establishment as defined in the hospital licensing law, subsection 2 of section 197.020, RSMo, or a hospital operated by the state;
- (S) **IA (Immediately available)** means being present at bedside at the time of the patient's arrival at the hospital when prior notification is possible and no more than twenty (20) minutes from the hospital under normal driving and weather conditions;
- (T) **IH (In-house)** means being on the hospital premises twenty-four (24) hours a day;
- (U) **Liaison** means one (1) physician representative from each of the following: cardiologist, interventional cardiologists, cardiovascular surgeons, anesthesiologists, intensivists emergency medicine physicians, and other STEMI center clinical staff who is selected to attend the performance improvement and patient safety committee and to disseminate information to the other physicians within his/her specialty caring for STEMI patients;
- (V) **Medical contact to balloon time** is the time from when emergency medical service personnel or another medical provider first makes contact with a patient experiencing an ST-Elevation Myocardial Infarction to the time an interventional device is in the vessel;
- (W) **Mentoring relationship** is a relationship in which a high volume PCI operator, often described as performing one hundred fifty (150) or more procedures per year, serves as a mentor for an operator who performs less than eleven (11) primary PCIs per year. The mentor may be a member of the same institution or belong to another institution. This relationship may include but not be limited to on-site supervision and observation of performance during primary and elective PCIs, review of mentee's patient encounters, review of mentee's outcomes, evaluation of mentee and hospital's process pertaining to elective and primary PCIs, and guidance on methods to improve process, performance, and outcomes;
- (X) **Missouri STEMI registry** is a statewide data collection system comprised of key data elements as identified by the department of health and senior services used to compile and trend statistics of STEMI patients both pre-hospital and hospital, using a coordinated electronic reporting method provided by the Missouri department of health and senior services;

- (Y) **Multidisciplinary team** is a team of appropriate representatives of hospital units involved in the care of the STEMI patient. This team supports the care of the STEMI patient with the STEMI team;
- (Z) **PA (Promptly available)** means arrival at the hospital at the patient's bedside within thirty (30) minutes after notification of a patient's arrival at the hospital;
- (AA) **Patient** means an individual who is sick, injured, wounded, diseased, or otherwise incapacitated or helpless, or dead, excluding deceased individuals being transported from or between private or public institutions, homes or cemeteries, and individuals declared dead prior to the time an ambulance is called for assistance;
- (BB) **Percutaneous Coronary Intervention (PCI)** is a procedure used to open or widen narrowed or blocked blood vessels to restore blood flow supplying the heart. A **primary PCI** is one that is generally done on an emergency basis for a ST-elevation myocardial infarction (STEMI). An **elective PCI** is one that is done on a preventive basis to reduce signs and symptoms of angina. The institutional and operator numbers of primary and elective PCIs shall be determined according to the criteria established by the department;
- (CC) **Phase I cardiac rehabilitation** is an inpatient program that provides an individualized exercise and education plan for patients with cardiac illnesses;
- (DD) **Physician** means a person licensed as a physician pursuant to chapter 334, RSMo;
- (EE) **Protocol** means a predetermined, written medical care guideline, which may include standing orders;
- (FF) **Qualified individual** is a physician, registered nurse, nurse practitioner, and physician assistant that demonstrates administrative ability and shows evidence of educational preparation and clinical experience in the care of STEMI patients and is licensed by the state of Missouri;
- (GG) **R (Requirement)** is a symbol to indicate that a standard is a requirement for STEMI center designation at a particular level;
- (HH) **Repatriation** is the process used to return a STEMI patient to their home community from a STEMI designated hospital Level I or Level II after their acute treatment for STEMI has been completed. This allows the patient to be closer to home for continued hospitalization or rehabilitation and follow-up care as indicated by the patient's condition;
- (II) **Review** is the inspection of hospitals to determine compliance with the rules of this chapter. There are four (4) types of reviews: the initial review of hospitals never before designated as STEMI centers or hospitals never before reviewed for compliance with the rules of this chapter or hospitals applying for a new level of STEMI center designation; the verification review to evaluate the correction of any deficiencies noted in a previous review; the validation review, which shall occur every three (3) years to assure continued compliance with the rules of this chapter; and a focus review to allow review of substantial deficiencies by a review team;
- (JJ) **STEMI or ST elevation myocardial infarction** means a type of heart attack in which impaired blood flow to the patient's heart muscle is evidenced by ST-segment elevation or LBBB in electrocardiogram analysis;
- (KK) **STEMI call roster** is a schedule of licensed health professionals available twenty-four (24) hours a day seven (7) days a week for the care of the STEMI patient;
- (LL) **STEMI care** includes education and prevention, emergency transport, triage, and acute care and rehabilitative services for STEMI that requires immediate medical or surgical intervention or treatment;
- (MM) **STEMI center** means a hospital that is currently designated as such by the department to care for patients with ST-segment elevation myocardial infarctions. Level I is a receiving center staffed and

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equipped to provide total care for every aspect of STEMI care, including care for those patients with complications, it functions as a resource center for the hospitals within that region, and conducts research. Level II is a receiving center staffed and equipped to provide care for a large number of STEMI patients within the region. Level III is primarily a referral center that provides prompt assessment, indicated resuscitation and appropriate emergency intervention for STEMI patients to stabilize and arrange timely transfer to a Level I or II, as needed. Level IV is a referral center in an area considered rural or where there are insufficient hospital resources to serve the patient population requiring STEMI care. The Level IV center provides prompt assessment, indicated resuscitation, appropriate emergency intervention, and arranges and expedites transfer to a higher level as needed;

- (NN) **STEMI medical director** is a physician designated by the hospital who is responsible for the STEMI service and performance improvement and patient safety programs related to STEMI care;
- (OO) **STEMI program manager** is a registered nurse or qualified individual designated by the hospital with responsibility for monitoring and evaluating the care of STEMI patients and the coordination of performance improvement and patient safety programs for the STEMI center in conjunction with the physician in charge of STEMI care;
- (PP) **STEMI program** is an organizational component of the hospital specializing in the care of STEMI patients;
- (QQ) **STEMI team** is a component of the hospital STEMI program and consists of the core team and the clinical team.